

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S2	184	29/890.1.ccls.	USPAT	OR	OFF	2001/05/30 11:20
S3	1110	29/25.35.ccls.	USPAT	OR	OFF	2001/05/30 11:20
S4	1252	29/890.1.ccls. or 29/25.35.ccls.	USPAT	OR	OFF	2001/05/30 11:20
S5	44568	ink adj jet	USPAT; JPO	OR	OFF	2001/05/30 11:20
S6	4296	ink adj jet adj recording adj head	USPAT; JPO	OR	OFF	2001/05/30 12:25
S33	2322	347/54,68,69,70,71,72.ccls. and ink	USPAT; JPO	OR	OFF	2005/12/12 10:18
S53	2561	156/252,292.ccls.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2005/12/12 10:18
S54	697	216/26,27.ccls.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2005/12/12 10:18
S55	3029	29/25.35,890.1.ccls.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2005/12/12 10:18
S56	3020	347/54,68,69,70,71,72.ccls.	USPAT; JPO	OR	OFF	2005/12/12 10:19
S57	0	(nozzle adj plate) near base near (partition near wall)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2005/12/12 10:23
S58	76	(nozzle adj plate) near base	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2005/12/12 10:20
S59	8	(nozzle adj plate) near (partition near wall)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2005/12/12 10:22
S60	0	S58 and S59	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2005/12/12 10:20
S61	5924	plate near shape\$ near member	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2005/12/12 10:30

S62	216	(nozzle adj plate) same (partition near wall)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2005/12/12 10:47
S63	2	S61 and S62	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2005/12/12 10:23
S64	12	(nozzle adj plate) with (partition near wall) with adhesive	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2005/12/12 10:57
S65	27	(plate near shape\$ near member) with (nozzle adj plate)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2005/12/12 10:46
S66	4	S56 and S65	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2005/12/12 10:33
S67	221	kitahara-tsuyoshi.in.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2005/12/12 10:36
S68	15	S61 and S67	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2005/12/12 10:34
S69	15	S68 and (nozzle adj plate)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2005/12/12 10:34
S70	64	S67 and (base) and nozzle	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2005/12/12 10:36
S71	0	(plate near shape\$ near member) same (nozzle adj plate) same spacer	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2005/12/12 10:46
S72	10	(nozzle adj plate) same (partition near wall) same spacer	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2005/12/12 10:47
S73	4	S72 and @ad<"19991118"	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2005/12/12 10:52

S74	9	(("5933170") or ("5684520") or ("5802686") or ("6158847")).PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT	OR	OFF	2005/12/12 10:53
S75	7	(US-5754205-\$ or US-5956829-\$ or US-6305792-\$ or US-5933170-\$ or US-5684520-\$).did. or (JP-06293134-\$ or JP-07178906-\$).did.	USPAT; JPO	OR	ON	2005/12/12 10:56
S76	6	S75 and adhesive	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2005/12/12 11:11
S77	3	S76 and etch\$3	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2005/12/12 11:12


[Home](#) | [Login](#) | [Logout](#) | [Access Information](#) | [Alerts](#) |

Welcome United States Patent and Trademark Office

» Search Results

[BROWSE](#)[SEARCH](#)[IEEE XPLORE GUIDE](#)Results for "(((ink jet head)and (nozzle plate))<in>metadata)) <and> (pyr >= 1950 <and> pyr..." [e-mail](#)

Your search matched 1 of 1282825 documents.

A maximum of 100 results are displayed, 25 to a page, sorted by Relevance in Descending order.

» Search Options

[View Session History](#)[New Search](#)

Modify Search

☐ Check to search only within this results setDisplay Format: ☒ Citation ☐ Citation & Abstract

» Key

IEEE JNL IEEE Journal or Magazine

IEEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

- ☐ 1. **An Ink-jet head using diaphragm microactuator**
 Hirata, S.; Ishii, Y.; Matoba, H.; Inui, T.;
 Micro Electro Mechanical Systems, 1996, MEMS '96, Proceedings. 'An Investigation of Micro Structures, Sensors, Actuators, Machines and Systems'. IEEE, The Ninth Annual Workshop on
 11-15 Feb. 1996 Page(s):418 - 423
 Digital Object Identifier 10.1109/MEMSYS.1996.494018
[AbstractPlus](#) | Full Text: [PDF](#)(672 KB) IEEE CNF

 Indexed by
[Help](#) [Contact Us](#) [Privacy & Security](#)

© Copyright 2005 IEEE ...